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Page 2, line 4, after “, eds” insert “.”.

Page 3, line 6, delete “Peoc” and insert --Proc--.

Page 3, line 13, delete “pleitropic” and insert --pleiotropic--.

Page 9, line 26, delete “recombinagenicity” and insert --recombinogenicity--.

Page 11, line 7, delete “pigmentosium” and insert --pigmentosum--.

Page 11, line 21, delete “aplasitic” and insert --aplastic--.

Page 19, line 9, delete “noreleucine” and insert --norleucine--.

Page 19, lines 16 and 25, delete “occurring” and insert --occurring--.

Page 20, line 27, delete “O-methylphosphoroamidite” insert --O-methylphosphoroamidite--.

Page 21, line 16, delete “pp169-176” and insert --pp. 169-176--.

Page 21, lines 21 and 29, delete “occurring” and insert --occurring--.

Page 21, line 26, delete “xanthanine” and insert --xanthine--.

Page 35, line 5, delete “Eurkaryotic” and insert --Eukaryotic--.

Page 35, line 6, delete “policlonal” and insert --polyclonal--.

Page 43, line 25, delete “chromsome” and insert --chromosome--.

Page 43, line 28, delete “Westem” and insert --Western--.

Page 44, line 2, delete “1995” and insert --1995--.

Page 44, line 2, delete “polydonal” and insert --polyclonal--.

Page 44, line 20, delete “IaG” and insert --IgG--.

Page 44, line 25, delete “HCl” and insert --HCl--.

Page 45, line 7, delete “enzyme” and insert --enzyme--.

Page 45, line 8, delete “preprations” and insert --preparations--.

Page 45, line 11, delete “rhodarnine” and insert --rhodamine--.

Page 46, line 10, delete “ADOPE” and insert --ADOBE--.

Page 46, line 28, delete “3a” and insert --3A--.

Page 48, line 6, delete “3b” and insert --3B--.

Page 48, line 13, delete “3c” and insert --3C--.

Page 48, line 15, delete “4; Table” and insert --4; Table--.

Page 50, line 20, delete “h rs” and insert --hours--.

Page 50, line 24, delete “occurring” and insert --occurring--.

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Page 51, line 15, delete "Aftthough" and insert --Although--.
Page 51, line 16, delete "irnmunolocalized" and insert --immunolocalized--.
Page 51, line 16, delete "discrete", first occurrence.
Page 51, line 21, delete "io" and insert --in--.
Page 51, line 27, delete "coodense" and insert --condense--.
Page 51, line 30, delete "lysis" and insert --lysis--.
Page 52, line 2, delete "deattachment" and insert --detachment--.
Page 52, line 6, delete "~" and insert --i--.
Page 52, line 7, delete "ofthe" and insert --of the--.
Page 52, line 15, delete "5I" and insert --51--.
Page 53, line 12, delete "contaiing" and insert --containing--.
Page 53, line 24, delete "topisomerase" and insert --topoisomerase--.
Page 53, line 25, delete "condem" and insert --condemn--.
Page 54, line 25, delete "7a" and insert --7A--.
Page 54, line 26, delete "7b" and insert --7B--.
Page 55, line 1, delete "reminscent" and insert --reminiscent--.
Page 55, line 7, delete "exponentionally" and insert --exponentially--.
Page 55, line 19, delete "immunolabling" and insert --immunolabeling--.
Page 56, line 26, delete "~" and insert --v--.
Page 58, line 2, delete ",M" and insert --, M--.

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Insert the following ABSTRACT as page 65: --

Described herein are methods of determining whether a cell contains a mutant Rad51 gene. Also described herein are methods of identifying the Rad51 genotype of an individual. The methods include determining the sequence of all or part of a Rad51 gene.--

In the Claims:

Please cancel claim 20 without prejudice.

18. (Amended) A method [for] of determining whether a cell contains [identifying a cell containing] a mutant Rad51 gene comprising determining the sequence of all or part of [at least one of the endogenous Rad51 genes] an endogenous Rad51 gene of a cell and comparing said sequence to a known Rad51 gene.